

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> DESC Students

Name	Null?	Type
STUDID	NOT NULL	NUMBER(6)
SNAME		VARCHAR2(30)
STREET		VARCHAR2(40)
CITYNAME		VARCHAR2(25)
STATENAME		VARCHAR2(40)
PINCODE		NUMBER(6)

SQL> CREATE TABLE StudentBooks

```
2  (  
3   LibTranNO  NUMBER(6),  
4   StudID     NUMBER(6),  
5   BookTitle  VARCHAR2(50),  
6   LendingDate DATE,  
7   CONSTRAINT LibtreamNoPK  
8   PRIMARY KEY(LibTranNO, Studid),  
9   CONSTRAINT StudentBooksFK  
10  FOREIGN KEY(Studid)  
11  REFERENCES Students(StudID)  
12 );
```

Table created.

SQL> BEGIN

```
2  DELETE FROM STUDENTS;  
3  INSERT INTO Students  
4  VALUES(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',  
506001);  
5  INSERT INTO Students  
6  VALUES(1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA  
PRADESH', 506002);  
7  INSERT INTO Students  
8  VALUES(1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',  
606060);  
9  COMMIT;  
10 END;  
11  
12
```

PL/SQL procedure successfully completed.

SQL> BEGIN

```
2  INSERT INTO StudentBooks  
3  VALUES(2000, 1200, 'THERMO DYNAMICS', SYSDATE);
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
4  INSERT INTO StudentBooks
5  VALUES(2001, 1200, 'FLUID MECHANICS', SYSDATE);
6  INSERT INTO StudentBooks
7  VALUES(2002, 1200, 'ATOMIC PHYSICS', SYSDATE);
8  INSERT INTO StudentBooks
9  VALUES(2003, 1201, 'STRUCTURAL DYNAMICS', SYSDATE);
10 INSERT INTO StudentBooks
11 VALUES(2004, 1201, 'AVIATION THEORY', SYSDATE);
12 INSERT INTO StudentBooks
13 VALUES(2005, 1202, 'PROPULSION THEORY', SYSDATE);
14 COMMIT;
15 END;
16 /
```

PL/SQL procedure successfully completed.

```
SQL> COLUMN STUDID FORMAT 9999
SQL> COLUMN SNAME FORMAT A9
SQL> COLUMN STREET FORMAT A12
SQL> COLUMN CITYNAME FORMAT A13
SQL> COLUMN STATENAME FORMAT A15
SQL> COLUMN PINCODE FORMAT 999999
SQL> SELECT *
      2 FROM Students;
```

STUDID	SNAME	STREET	CITYNAME	STATENAME	PINCODE
1200	SAMPATH	SHIV BAGH	HYDERABAD	ANDHRA PRADESH	506001
1201	SRINIVAS	SHYAM NAGAR	SECUNDERABAD	ANDHRA PRADESH	506002
1202	SHIVAJI	ANDAL NAGAR	CHENNAI	TAMIL NADU	606060

```
SQL> COLUMN LIBTRANNO FORMAT 9999
SQL> COLUMN STUDID FORMAT 9999
SQL> COLUMN BOOKTITLE FORMAT A20
SQL> SELECT *
      2 FROM StudentBooks;
```

LIBTRANNO	STUDID	BOOKTITLE	LENDINGDA
2000	1200	THERMO DYNAMICS	09-APR-14
2001	1200	FLUID MECHANICS	09-APR-14
2002	1200	ATOMIC PHYSICS	09-APR-14
2003	1201	STRUCTURAL DYNAMICS	09-APR-14
2004	1201	AVIATION THEORY	09-APR-14
2005	1202	PROPULSION THEORY	09-APR-14

6 rows selected.

```
SQL> SELECT Sname, BookTitle, LendingDate
```

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```
2 FROM Students S, StudentBooks SB
3 WHERE S.StudID = SB.StudID;
```

SNAME	BOOKTITLE	LENDINGDA
SAMPATH	THERMO DYNAMICS	09-APR-14
SAMPATH	FLUID MECHANICS	09-APR-14
SAMPATH	ATOMIC PHYSICS	09-APR-14
SRINIVAS	STRUCTURAL DYNAMICS	09-APR-14
SRINIVAS	AVIATION THEORY	09-APR-14
SHIVAJI	PROPULSION THEORY	09-APR-14

6 rows selected.

```
SQL> CREATE OR REPLACE TYPE StudentType
2 AS OBJECT
3 (
4 Studid NUMBER(6),
5 Sname VARCHAR2(30),
6 Street Varchar2(40),
7 Cityname VARCHAR2(25),
8 Statename VARCHAR2(40),
9 Pincode NUMBER(6)
10 );
11 /
```

Type created.

```
SQL> DESC Students
```

Name	Null?	Type
STUDID	NOT NULL	NUMBER(6)
SNAME		VARCHAR2(30)
STREET		VARCHAR2(40)
CITYNAME		VARCHAR2(25)
STATENAME		VARCHAR2(40)
PINCODE		NUMBER(6)

```
SQL> DESC StudentType
```

Name	Null?	Type
STUDID		NUMBER(6)
SNAME		VARCHAR2(30)
STREET		VARCHAR2(40)
CITYNAME		VARCHAR2(25)
STATENAME		VARCHAR2(40)
PINCODE		NUMBER(6)

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SQL> cl scr

```
SQL> SELECT StudID,
  2   Sname, Street, CityName, StateName, Pincode
  3   FROM Students;
```

STUDID	SNAME	STREET	CITYNAME	STATENAME	PINCODE
1200	SAMPATH	SHIV BAGH	HYDERABAD	ANDHRA PRADESH	506001
1201	SRINIVAS	SHYAM NAGAR	SECUNDERABAD	ANDHRA PRADESH	506002
1202	SHIVAJI	ANDAL NAGAR	CHENNAI	TAMIL NADU	606060

```
SQL> CREATE OR REPLACE VIEW STUDENTOV
  2   OF StudentType
  3   WITH OBJECT IDENTIFIER(StudID)
  4   AS
  5   SELECT StudID,
  6   Sname, Street, CityName, StateName, Pincode
  7   FROM Students;
```

View created.

SQL> DESC STUDENTOV

Name	Null?	Type
STUDID		NUMBER (6)
SNAME		VARCHAR2 (30)
STREET		VARCHAR2 (40)
CITYNAME		VARCHAR2 (25)
STATENAME		VARCHAR2 (40)
PINCODE		NUMBER (6)

SQL> SELECT * FROM STUDENTOV;

STUDID	SNAME	STREET	CITYNAME	STATENAME	PINCODE
1200	SAMPATH	SHIV BAGH	HYDERABAD	ANDHRA PRADESH	506001
1201	SRINIVAS	SHYAM NAGAR	SECUNDERABAD	ANDHRA PRADESH	506002
1202	SHIVAJI	ANDAL NAGAR	CHENNAI	TAMIL NADU	606060

SQL> COL OID FORMAT A20

```
SQL> SELECT REF(A) OID, STUDID, SNAME, STREET, CITYNAME, STATENAME,
  2   PINCODE
  2   FROM STUDENTOV A;
```

OID	STUDID	SNAME	STREET	CITYNAME
STATENAME				

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PINCODE

00004A038A0046F63638 1200 SAMPATH SHIV BAGH HYDERABAD ANDHRA
PRADESH
78F735436DB7EE461637
8DD16400000014260100
01000100290000000000
090606002A00078401FE
0000000A02C20D000000
00000000000000000000
00000000000000
506001

OID STUDID SNAME STREET CITYNAME
STATENAME

PINCODE

00004A038A0046F63638 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA
PRADESH
78F735436DB7EE461637
8DD16400000014260100
01000100290000000000
090606002A00078401FE
0000000B03C20D020000
00000000000000000000
00000000000000

OID STUDID SNAME STREET CITYNAME
STATENAME

PINCODE

506002

00004A038A0046F63638 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL
NADU
78F735436DB7EE461637
8DD16400000014260100
01000100290000000000
090606002A00078401FE
0000000B03C20D030000
00000000000000000000

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OID STUDID SNAME STREET CITYNAME
STATENAME

PINCODE

000000000000000
606060

```
SQL> SELECT
  2 StudID,
  3 LibTranNo, BookTitle, LendingDate
  4 FROM StudentBooks;
```

STUDID	LIBTRANNO	BOOKTITLE	LENDINGDA
1200	2000	THERMO DYNAMICS	09-APR-14
1200	2001	FLUID MECHANICS	09-APR-14
1200	2002	ATOMIC PHYSICS	09-APR-14
1201	2003	STRUCTURAL DYNAMICS	09-APR-14
1201	2004	AVIATION THEORY	09-APR-14
1202	2005	PROPULSION THEORY	09-APR-14

6 rows selected.

```
SQL> cl scr
```

```
SQL> COL StudOID FORMAT A25
SQL> SELECT
  2 MAKE_REF(StudentOV, StudID) StudOID,
  3 LibTranNo, BookTitle, LendingDate
  4 FROM StudentBooks;
```

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
00004A038A0046F6363878F73 5436DB7EE4616378DD1640000 0014260100010001002900000 000000000000002A00078401FE 0000000A02C20D000000000000 00000000000000000000000000 0000	2000	THERMO DYNAMICS	09-APR-14
00004A038A0046F6363878F73 5436DB7EE4616378DD1640000 0014260100010001002900000	2001	FLUID MECHANICS	09-APR-14

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

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00000090606002A00078401FE
0000000A02C20D000000000000
00000000000000000000000000
0000

00004A038A0046F6363878F73	2002 ATOMIC PHYSICS	09-APR-14
5436DB7EE4616378DD1640000		
0014260100010001002900000		
00000090606002A00078401FE		
0000000A02C20D000000000000		
00000000000000000000000000		

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

0000

00004A038A0046F6363878F73	2003 STRUCTURAL DYNAMICS	09-APR-14
5436DB7EE4616378DD1640000		
0014260100010001002900000		
00000090606002A00078401FE		
0000000B03C20D020000000000		
00000000000000000000000000		

00004A038A0046F6363878F73	2004 AVIATION THEORY	09-APR-14
---------------------------	----------------------	-----------

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

5436DB7EE4616378DD1640000
0014260100010001002900000
00000090606002A00078401FE
0000000B03C20D020000000000
00000000000000000000000000
0000

00004A038A0046F6363878F73	2005 PROPULSION THEORY	09-APR-14
5436DB7EE4616378DD1640000		
0014260100010001002900000		
00000090606002A00078401FE		

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

0000000B03C20D030000000000
00000000000000000000000000
0000

6 rows selected.

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```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deref(Make_Ref(StudentOV, StudID)) StudOID,
3  LibTranNo, BookTitle, LendingDate
4* FROM StudentBooks
SQL> /
```

STUDOID(STUDID, SNAME, ST	LIBTRANNO	BOOKTITLE	LENDINGDA
STUDENTTYPE(1200, 'SAMPAT H', 'SHIV BAGH', 'HYDERAB AD', 'ANDHRA PRADESH', 50 6001)	2000	THERMO DYNAMICS	09-APR-14
STUDENTTYPE(1200, 'SAMPAT H', 'SHIV BAGH', 'HYDERAB AD', 'ANDHRA PRADESH', 50 6001)	2001	FLUID MECHANICS	09-APR-14
STUDENTTYPE(1200, 'SAMPAT H', 'SHIV BAGH', 'HYDERAB AD', 'ANDHRA PRADESH', 50 6001)	2002	ATOMIC PHYSICS	09-APR-14
STUDOID(STUDID, SNAME, ST	LIBTRANNO	BOOKTITLE	LENDINGDA
H', 'SHIV BAGH', 'HYDERAB AD', 'ANDHRA PRADESH', 50 6001)			
STUDENTTYPE(1201, 'SRINIV AS', 'SHYAM NAGAR', 'SECU NDERABAD', 'ANDHRA PRADES H', 506002)	2003	STRUCTURAL DYNAMICS	09-APR-14
STUDENTTYPE(1201, 'SRINIV AS', 'SHYAM NAGAR', 'SECU NDERABAD', 'ANDHRA PRADES H', 506002)	2004	AVIATION THEORY	09-APR-14
STUDOID(STUDID, SNAME, ST	LIBTRANNO	BOOKTITLE	LENDINGDA
NDERABAD', 'ANDHRA PRADES H', 506002)			
STUDENTTYPE(1202, 'SHIVAJ I', 'ANDAL NAGAR', 'CHENN AI', 'TAMIL NADU', 606060)	2005	PROPULSION THEORY	09-APR-14

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6 rows selected.

SQL> cl scr

```
SQL> CREATE VIEW StudentBooksOV
  2 AS
  3 SELECT
  4 MAKE_REF(StudentOV, StudID) StudOID,
  5 LibTranNo, BookTitle, LendingDate
  6 FROM StudentBooks;
```

View created.

SQL> DESC StudentBooksOV

Name	Null?	Type
STUDOID		REF OF STUDENTTYPE
LIBTRANNO	NOT NULL	NUMBER(6)
BOOKTITLE		VARCHAR2(50)
LENDINGDATE		DATE

SQL> SELECT * FROM StudentBooksOV;

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDATE
00004A038A0046F6363878F73 5436DB7EE4616378DD1640000 0014260100010001002900000 00000090606002A00078401FE 0000000A02C20D000000000000 00000000000000000000000000 0000	2000	THERMO DYNAMICS	09-APR-14
00004A038A0046F6363878F73 5436DB7EE4616378DD1640000 0014260100010001002900000	2001	FLUID MECHANICS	09-APR-14
00000090606002A00078401FE 0000000A02C20D000000000000 00000000000000000000000000 0000	2002	ATOMIC PHYSICS	09-APR-14

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0000000A02C20D000000000000
00000000000000000000000000

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

0000

00004A038A0046F6363878F73	2003	STRUCTURAL DYNAMICS	09-APR-14
---------------------------	------	---------------------	-----------

5436DB7EE4616378DD1640000
0014260100010001002900000
00000090606002A00078401FE
0000000B03C20D02000000000
0000000000000000000000000
0000

00004A038A0046F6363878F73	2004	AVIATION THEORY	09-APR-14
---------------------------	------	-----------------	-----------

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

5436DB7EE4616378DD1640000
0014260100010001002900000
00000090606002A00078401FE
0000000B03C20D02000000000
0000000000000000000000000
0000

00004A038A0046F6363878F73	2005	PROPULSION THEORY	09-APR-14
---------------------------	------	-------------------	-----------

5436DB7EE4616378DD1640000
0014260100010001002900000
00000090606002A00078401FE

STUDOID	LIBTRANNO	BOOKTITLE	LENDINGDA
---------	-----------	-----------	-----------

0000000B03C20D03000000000
0000000000000000000000000
0000

6 rows selected.

```
SQL> SELECT Deref(SB.StudOID)
2 FROM StudentBooksOV SB
3 WHERE BookTitle = 'THERMO DYNAMICS';
```

Deref(SB.STUDOID)(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)

STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)

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```
SQL> SELECT Deref(SB.StudOID)
2 FROM StudentBooksOV SB;
```

```
Deref(SB.STUDOID)(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)
```

```
-----
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)
STUDENTTYPE(1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 5
06002)
```

```
STUDENTTYPE(1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 5
06002)
```

```
STUDENTTYPE(1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',
606060)
```

6 rows selected.

```
SQL> SELECT
2 LibTranNO,
3 BookTitle,
4 LendingDate,
5 Deref(SB.StudOID) StudentData
6 FROM StudentBooksOV SB
7 WHERE BookTitle = 'THERMO DYNAMICS';
```

```
LIBTRANNO BOOKTITLE LENDINGDA
```

```
-----
STUDENTDATA(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)
```

```
-----
2000 THERMO DYNAMICS 09-APR-14
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)
```

```
SQL> SELECT
2 LibTranNO,
3 BookTitle,
4 LendingDate,
5 Deref(SB.StudOID) StudentData
```

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6 FROM StudentBooksOV SB;

LIBTRANNO BOOKTITLE LENDINGDA

STUDENTDATA(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)

2002 ATOMIC PHYSICS 09-APR-14
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)

2001 FLUID MECHANICS 09-APR-14
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)

2000 THERMO DYNAMICS 09-APR-14
STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)

LIBTRANNO BOOKTITLE LENDINGDA

STUDENTDATA(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)

2004 AVIATION THEORY 09-APR-14
STUDENTTYPE(1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 5
06002)

2003 STRUCTURAL DYNAMICS 09-APR-14
STUDENTTYPE(1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 5
06002)

2005 PROPULSION THEORY 09-APR-14

LIBTRANNO BOOKTITLE LENDINGDA

STUDENTDATA(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)

STUDENTTYPE(1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',
608060)

6 rows selected.

SQL> SELECT

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```
2 StudentBooksData.StudentData.StudID StudID,
3 StudentBooksData.StudentData.Sname Sname,
4 LibTranNO,
5 BookTitle,
6 LendingDate
7 FROM
8 (
9 SELECT
10 LibTranNO,
11 BookTitle,
12 LendingDate,
13 Deref(SB.StudOID) StudentData
14 FROM StudentBooksOV SB
15 ) StudentBooksData;
```

STUDID	SNAME	LIBTRANNO	BOOKTITLE	LENDINGDA
1200	SAMPATH	2002	ATOMIC PHYSICS	09-APR-14
1200	SAMPATH	2001	FLUID MECHANICS	09-APR-14
1200	SAMPATH	2000	THERMO DYNAMICS	09-APR-14
1201	SRINIVAS	2004	AVIATION THEORY	09-APR-14
1201	SRINIVAS	2003	STRUCTURAL DYNAMICS	09-APR-14
1202	SHIVAJI	2005	PROPULSION THEORY	09-APR-14

6 rows selected.

```
SQL> SELECT
2 Deref(SB.StudOID).StudID StudID,
3 Deref(SB.StudOID).Sname Sname,
4 LibTranNO,
5 BookTitle,
6 LendingDate
7 FROM StudentBooksOV SB;
```

STUDID	SNAME	LIBTRANNO	BOOKTITLE	LENDINGDA
1200	SAMPATH	2002	ATOMIC PHYSICS	09-APR-14
1200	SAMPATH	2001	FLUID MECHANICS	09-APR-14
1200	SAMPATH	2000	THERMO DYNAMICS	09-APR-14
1201	SRINIVAS	2004	AVIATION THEORY	09-APR-14
1201	SRINIVAS	2003	STRUCTURAL DYNAMICS	09-APR-14
1202	SHIVAJI	2005	PROPULSION THEORY	09-APR-14

6 rows selected.

```
SQL> SPOOL OFF
```

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